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Figure 1

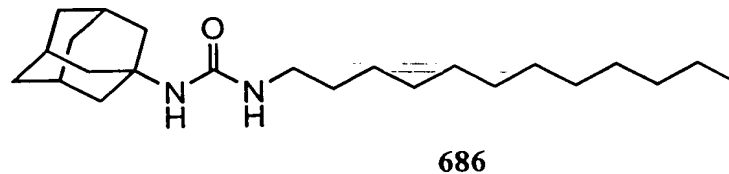
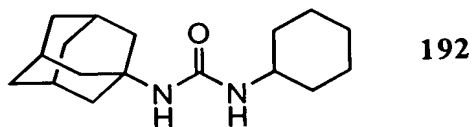
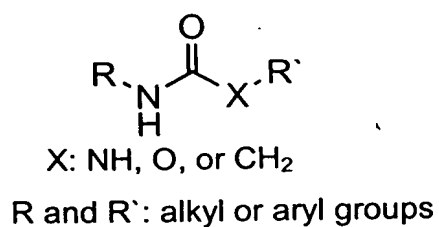


Figure 2

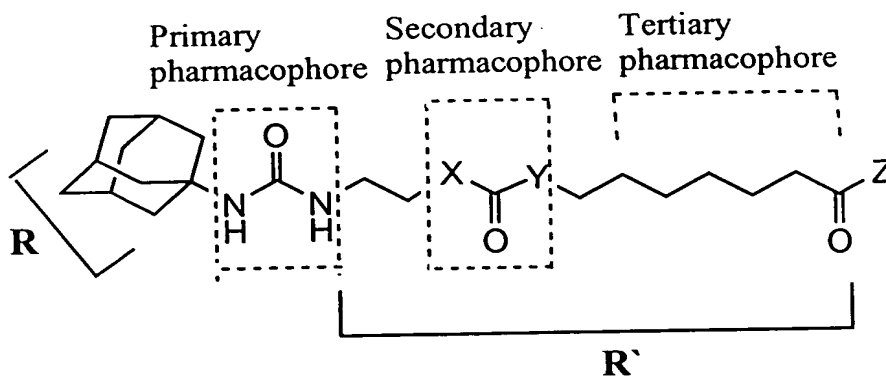


Figure 3

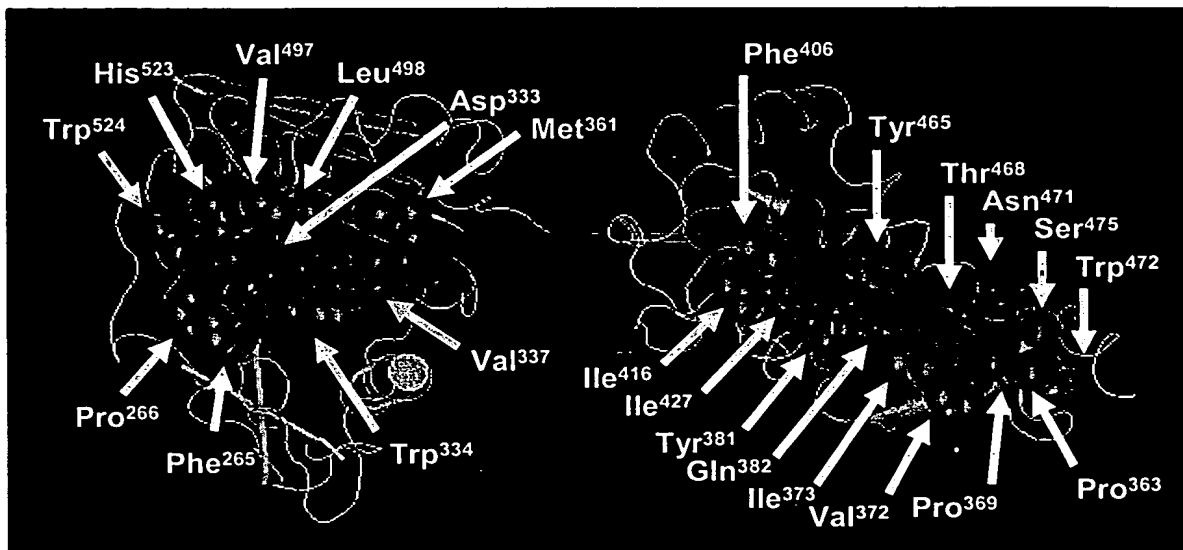


Figure 4

Human sEH (JC4711)	MTLRGAVFDLDGVLALPAVFGVLGRTEEALALRGLLNDAA	40
Rat sEH (P80299)	MALRVAAFDLDGVLALPSIAGVLRHTEEALALRDFLLGA	40
Mouse liver sEH (AAA37555)	MALRVAAFDLDGVLALPSIAGAFRRSEALALRDFLLGA	40
Mouse ovary sEH (AAM28238)	M-----RFAAMAAFSVFFVSKGLLMNS	22
Human sEH (JC4711)	FQKGGPEGATTRLMKGEITLSQWIPLMEENCRCSETAKV	80
Rat sEH (P80299)	FQMKFPPEGPTQLMKGKITFSQWVPLMDESCRKSSKACGA	80
Mouse liver sEH (AAA37555)	YQTEFPEGPTQLMKGKITFSQWVPLMDESYRKSSKACGA	80
Mouse ovary sEH (AAM28238)	NIWCVGQEGPSQEDTDTIHTSEWVPLMDESYRKSSKACGA	62
Human sEH (JC4711)	CLPKNFSIKEIFDKAISARKINRPMLOAAALMLRKKGFTTA	120
Rat sEH (P80299)	SLPENFSISEIFSQAMAAARSINRPMLOAAAALKKKGFTTC	120
Mouse liver sEH (AAA37555)	NLPENFSISQIFSQAMAAARSINRPMLOAAIALKKKGFTTC	120
Mouse ovary sEH (AAM28238)	NLPENFSISQIFSQAMAAARSINRPMLOAAIALKKKGFTTC	102
Human sEH (JC4711)	ILTNNTWLD DRAERDGLAQLMCELKMHFDFLIESCQVGMVK	160
Rat sEH (P80299)	IVTNNWLDDSDKRDILAQMMCELSQHFDFLIESCQVGMVK	160
Mouse liver sEH (AAA37555)	IVTNNWLDDGDKRDSLQMMCELSQHFDFLIESCQVGMVK	160
Mouse ovary sEH (AAM28238)	IVTNNWLDDGDKRDSLQMMCELSQHFDFLIESCQVGMVK	142
Human sEH (JC4711)	PEPQIYKFLDLTLKASPSSEVVFLDDIGANLKPARDLGMVLT	200
Rat sEH (P80299)	PEPQIYKFVLDLTLKAKPNEVVFLDDFGSNLKPARDMGMVLT	200
Mouse liver sEH (AAA37555)	PEPQIYNFLDLTLKAKPNEVVFLDDFGSNLKPARDMGMVLT	200
Mouse ovary sEH (AAM28238)	PEPQIYNFLDLTLKAKPNEVVFLDDFGSNLKPARDMGMVLT	182
Human sEH (JC4711)	ILVQD TDTALKELEKVTGIQLLNT P APLPTSCNPSDM SHG	240
Rat sEH (P80299)	ILVRDTASALRELEKVTGTQFPEAPLPVP CSPN - - DV SHG	238
Mouse liver sEH (AAA37555)	ILVHNTASALRELEKVTGTQFPEAPLPVP CNPN - - DV SHG	238
Mouse ovary sEH (AAM28238)	ILVHNTASALRELEKVTGTQFPEAPLPVP CNPN - - DV SHG	220
Human sEH (JC4711)	YVTVKPRVRLHFVELGSGPAVCLCHGFPESWYFSWRYQIPA	279
Rat sEH (P80299)	YVTVKPGIRLHFVEMGSGPAICLCHGFPESWYFSWRYQIPA	278
Mouse liver sEH (AAA37555)	YVTVKPGIRLHFVEMGSGPALCLCHGFPESWYFSWRYQIPA	278
Mouse ovary sEH (AAM28238)	YVTVKPGIRLHFVEMGSGPALCLCHGFPESWYFSWRYQIPA	260
Human sEH (JC4711)	LAQAAGYRVLAMDMKGYGESSAPPEIEEYCM EVLCKEMVTF	319
Rat sEH (P80299)	LAQAAGFRVLAIDMKGYGDS SPPEIEEYAMELLCKEMVTF	318
Mouse liver sEH (AAA37555)	LAQAAGFRVLAIDMKGYGDS SPPEIEEYAMELLCKEMVTF	318
Mouse ovary sEH (AAM28238)	LAQAAGFRVLAIDMKGYGDS SPPEIEEYAMELLCKEMVTF	300
† †		
Human sEH (JC4711)	LDKLGLSQAVFIGHDWAGMLVWYMA LFYPERVRAVASLNT	359
Rat sEH (P80299)	LNKLGIPQAVFIGHDWAGVLVWNMA LFHPERVRAVASLNT	358
Mouse liver sEH (AAA37555)	LDKLGIPQAVFIGHDWAGVMVWNMA LFYPERVRAVASLNT	358
Mouse ovary sEH (AAM28238)	LDKLGIPQAVFIGHDWAGVMVWNMA LFYPERVRAVASLNT	340

Protein sequences obtained from the NCBI database (accession numbers) showing identical (black) and homologous (gray) residues in the mammalian proteins. Sites for primary (†), secondary (‡) and tertiary (°) pharmacophores are indicated above each sequence.

Human sEH (JC4711)	PFI	PAN	PNM	SPLES	IKAN	PVFD	YQLYFQEPGVAEAELEQN	399				
Rat sEH (P80299)	PLMP	PNP	PEV	SPMEV	IRSI	PVFNY	YQLYFQEPGVAEAELEKN	398				
Mouse liver sEH (AAA37555)	PFM	PPD	PDV	SPMKV	IRSI	PVFNY	YQLYFQEPGVAEAELEKN	398				
Mouse ovary sEH (AAM28238)	PFM	PPD	PDV	SPMKV	IRSI	PVFNY	YQLYFQEPGVAEAELEKN	380				
Human sEH (JC4711)	LSRTFKS	LFRA	SD	ESVLSM-HK	VCEA	AGGLFV	NSPEEPSLS	438				
Rat sEH (P80299)	MSRTFKS	FFRT	SD	DMGLLTVNK	ATEM	GGILVGT	PEDPKVS	438				
Mouse liver sEH (AAA37555)	MSRTFKS	FFRA	SD	ETGFI AVHK	ATEI	GGILVNT	PEDPNLS	438				
Mouse ovary sEH (AAM28238)	MSRTFKS	FFRA	SD	ETGFI AVHK	ATEI	GGILVNT	PEDPNLS	420				
Human sEH (JC4711)	RMV	TEEEI	QFYV	QQFKKS	GFRG	PLN	WYRN	MERN	NWKW	ACKS	478	
Rat sEH (P80299)	KIT	TEEEI	EYYI	QQFKKS	GFRG	PLN	WYRN	TERN	NWKWS	CKA	478	
Mouse liver sEH (AAA37555)	KIT	TEEEI	EYYI	QQFKKT	GFRG	PLN	WYRN	TERN	NWKWS	CKG	478	
Mouse ovary sEH (AAM28238)	KIT	TEEEI	EYYI	QQFKKT	GFRG	PLN	WYRN	TERN	NWKWS	CKG	460	
Human sEH (JC4711)	LGRKIL	I	PALM	VTA	EKDF	VLV	PQMS	QH	MED	WIP	HLKRGHI	518
Rat sEH (P80299)	LGRKIL	V	PALM	VTA	EKD	IVLR	PEMS	KN	MEN	WIP	FLKRGHI	518
Mouse liver sEH (AAA37555)	LGRKIL	V	PALM	VTA	EKD	IVLR	PEMS	KN	MEK	WIP	FLKRGHI	518
Mouse ovary sEH (AAM28238)	LGRKIL	V	PALM	VTA	EKD	IVLR	PEMS	KN	MEK	WIP	FLKRGHI	500
Human sEH (JC4711)	EDCGHWTQ	MD	KPT	EVN	QILIKWL	DS	DARN	PP	PV	VS	SKM	554
Rat sEH (P80299)	EDCGHWTQ	IE	KPA	EVN	QILIKWL	KTE	IQNP	SV	TS	SKI		554
Mouse liver sEH (AAA37555)	EDCGHWTQ	IE	KPT	EVN	QILIKWL	QTE	VQNP	SV	TS	SKI		554
Mouse ovary sEH (AAM28238)	EDCGHWTQ	IE	KPT	EVN	QILIKWL	QTE	VQNP	SV	TS	SKI		536

Protein sequences obtained from the NCBI database (accession numbers) showing identical (black) and homologous (gray) residues in the mammalian proteins. Sites for primary (†), secondary (‡) and tertiary (°) pharmacophores are indicated above each sequence.

Figure 6

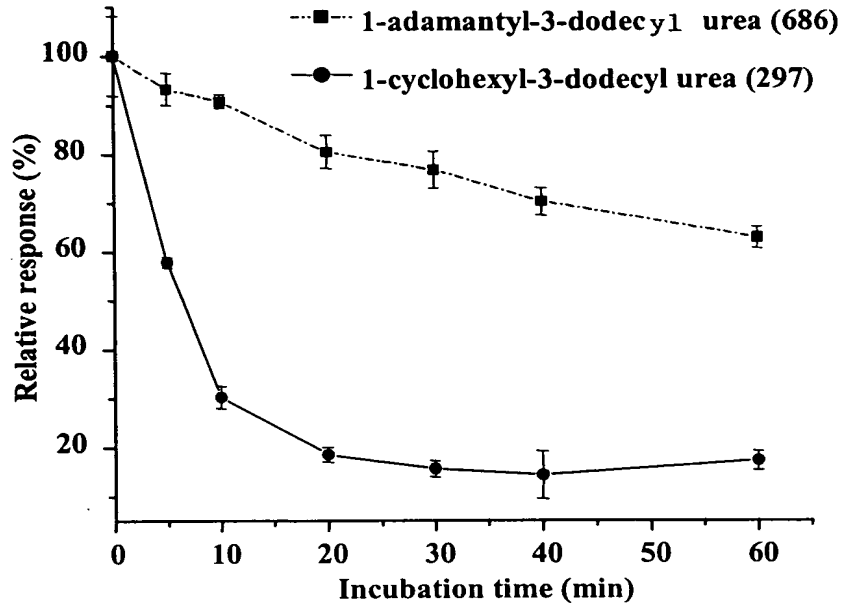


Figure 7

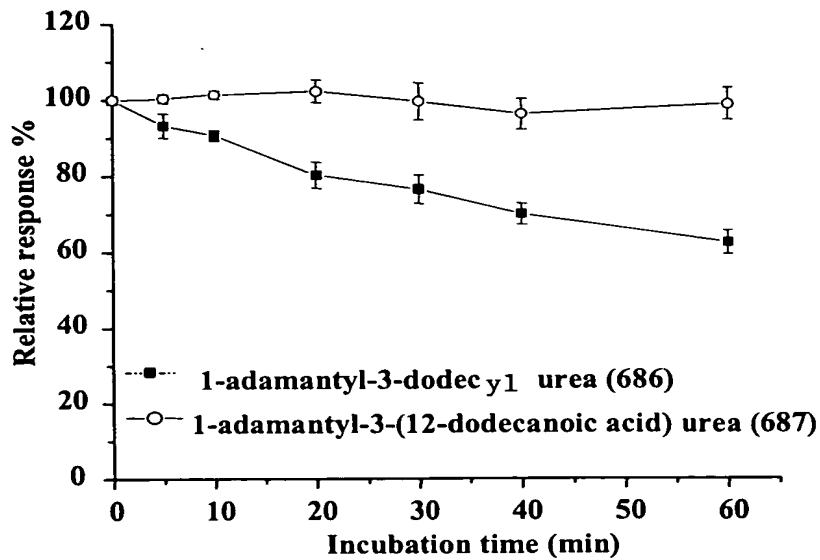


Figure 8

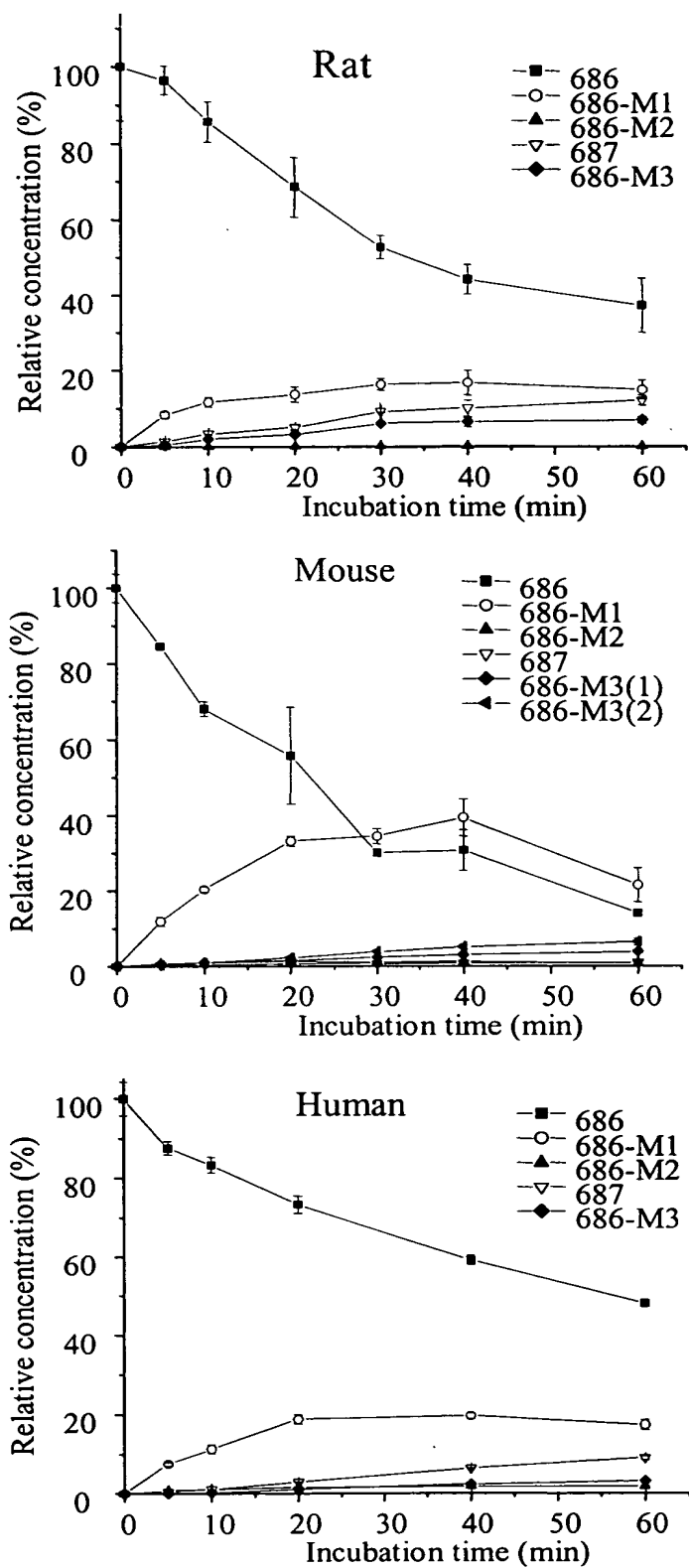


Figure 9

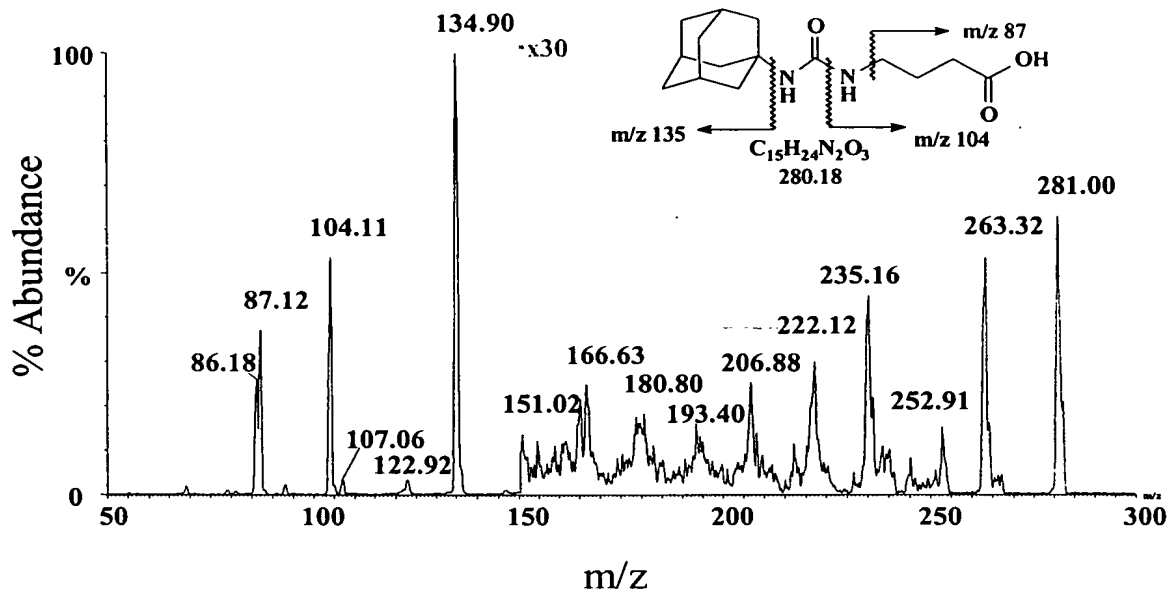


Figure 10

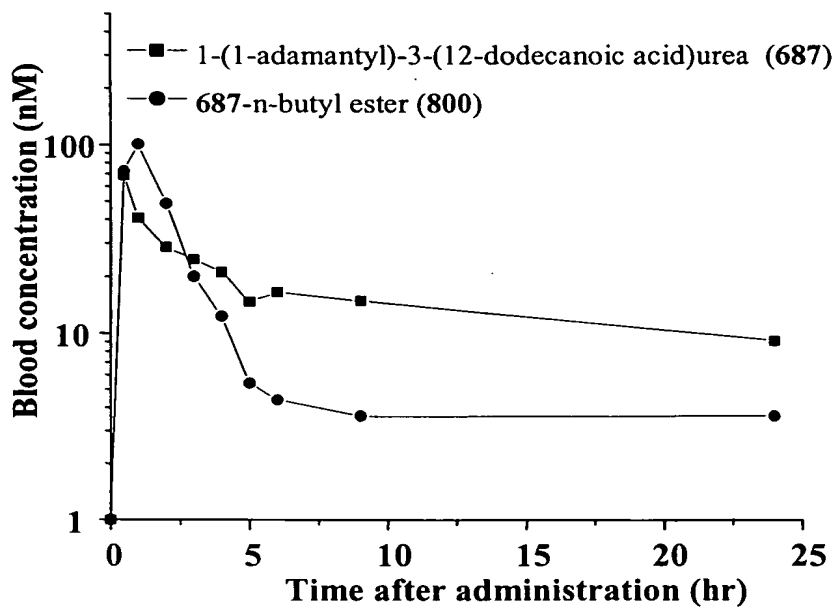
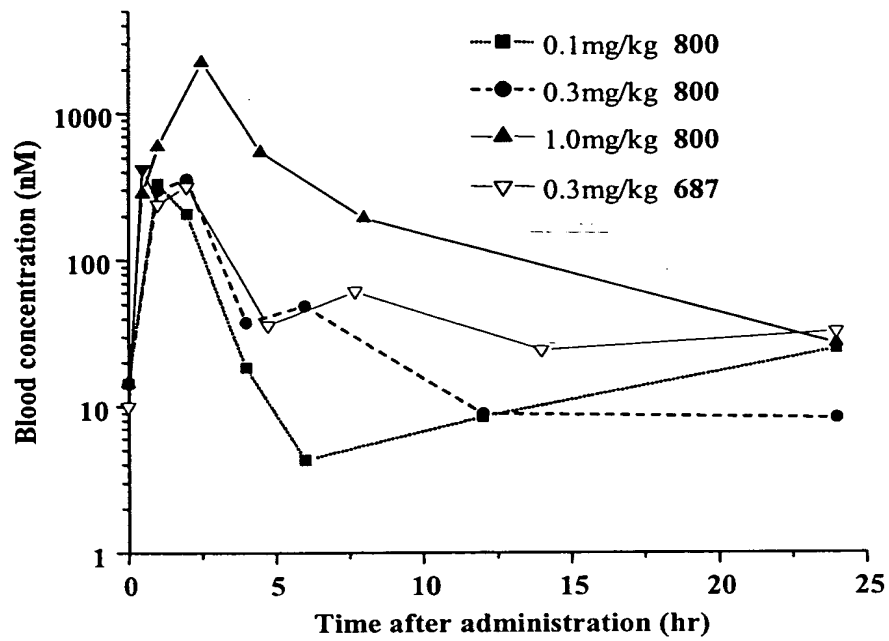


Figure 11



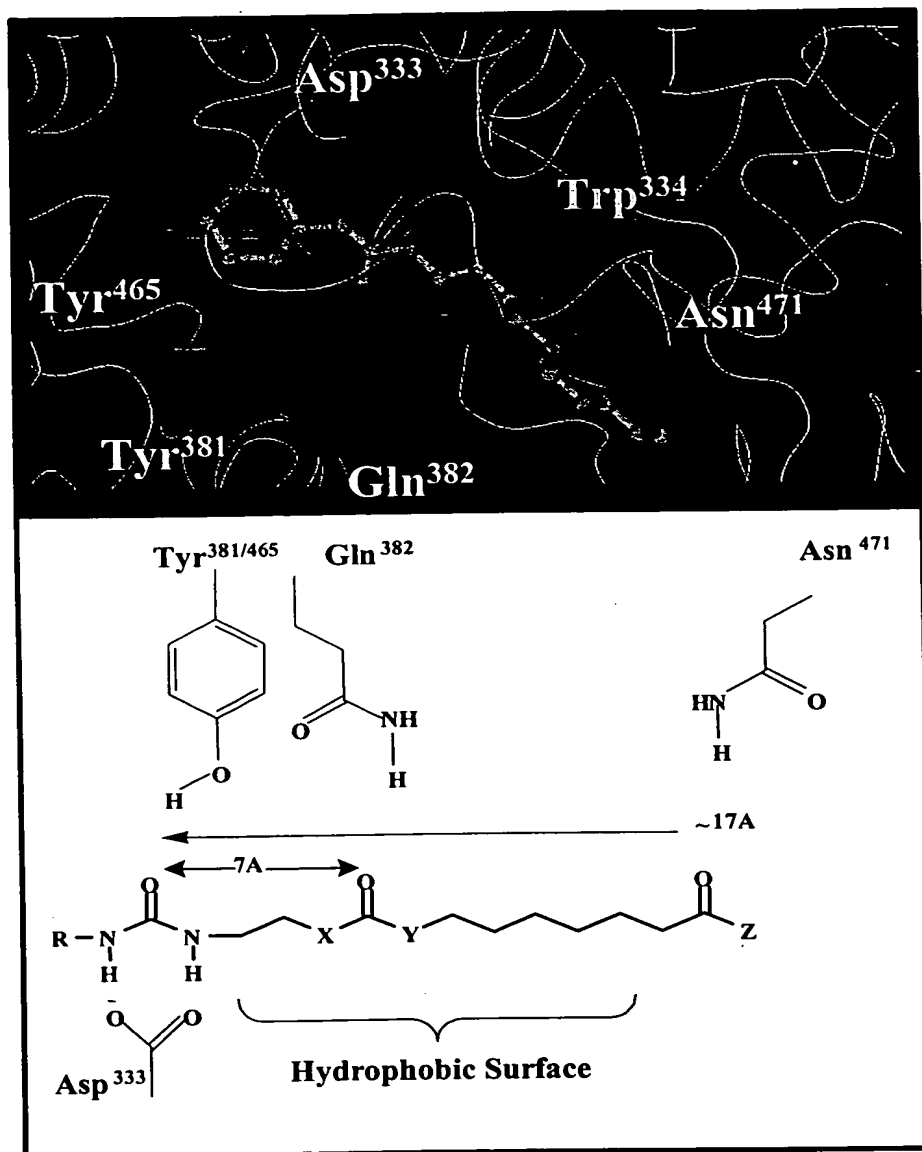


Figure 13

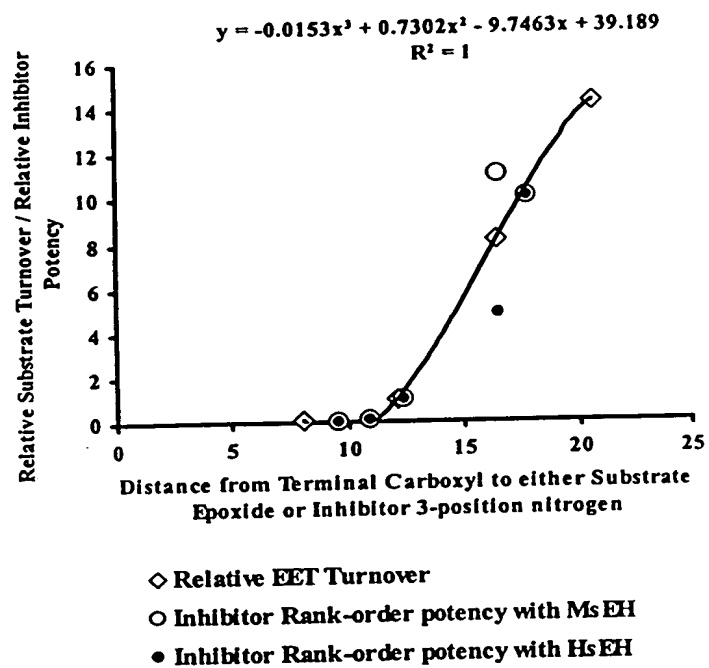


Figure 14

